GEL'MAN. N.L., inzh.; BELOBHZHESSKIY, N.A., inzh.; MUSATOV, T.P., inzh.;

SORÔKA, I.F., inzh.

Time intervals between repairs. Elek. sta. 36 no.9:74-76 S 165.
(MIFA 18:9)

1. Rostovskoye rayonnoye upravleniye energeticheskogo khozyaystva
(for Gel'man, Belobrzhesskiy). 2. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo basseyna (for Musatov, Sorcka).

MUSIYKO, D.K. (Donetskaya oblast'); KHAMZIN, Kh.Kh. (Sterlitamak); PRIVEN, R.A.; GEL'MAN, N.L. (Zhmerinka); PRESMAN, A.A. (Sverdlovsk) Editor's mail. Mat. v shkole no.3:81-86 My-Je '62. (MIRA 15:7) (Mathematics-Problems, exercises, etc.)

22(1)17

SOV/177-58-1-16/25

AUTHOR:

Gel'man, N.M., Lieutenant Colonel of the Medical Corps

TITLE:

The Role of the Garrison Hospital in Raising the Level of the Military Physician's Clinical Training (Rol' garnizonnogo gospitalya v povyshenii urovnya

klinicheskoy podgotovki voyskovýkh vrachey)

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 1, pp 68-70

(USSR)

ABSTRACT:

The author criticizes the fact that military physicians under training, sent to military hospitals, are being used as additional working units instead of being trained for higher qualifications. He stresses the need to replenish hospital libraries with modern medical literature and considers ward duty, twice a month, good practical training for future mili-

tary physicians.

Card 1/1

Oxidative phosphorylation on bacterial membranes of Microsoccus lysodeikticus. Biokhimila 30 no.4:772-777 J1-Ag '65.

(MIPA 18:8)

1. Institut biokhimii imeni A.N. Bakha AN SSSR, Moskva.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

S ENGINEER PROPERTY OF THE PRO

GEL'MAN, N. S. and A. OPARIN

"Formation of Purin Bases in Germinating Wheat Seeds," Dokl. Ak. Nauk SSSR, vol 64, No. 1, 1946.

B-2077, 9 Mar 48

BAURATA ESTUCIONES ESTABLISTA DE LA CARRELA

"Dehydrates of the Ripening and Cerminating Grain of Wheat." Thesis for degree of Candi. Biological Sci. Sub 13 Mey 49, Inst of Biochemistry imeni A. M. Bakh, Acad Sci USSR

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1942. From Vechernyava Foskva, Jan-Dec 1949.

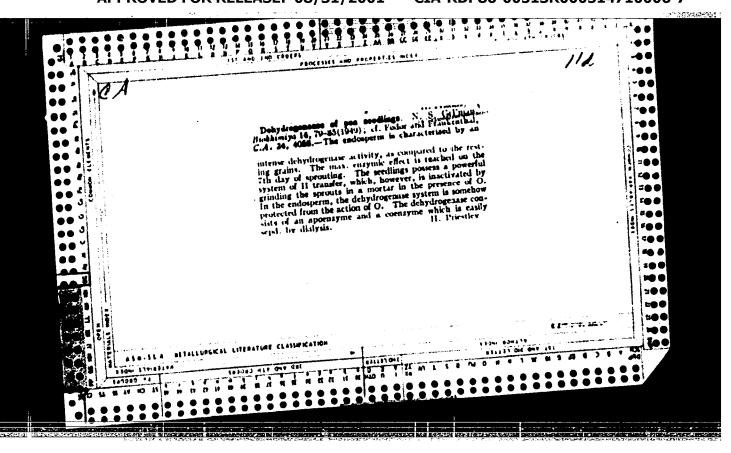
到一个自己的现在分词 医经验

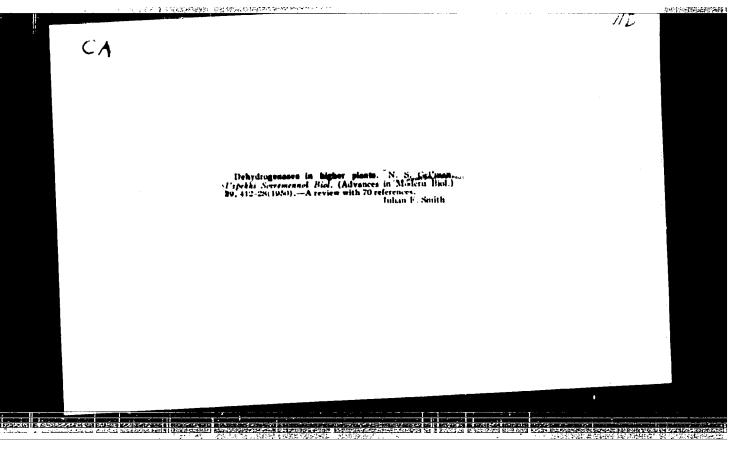
GEL'MAN, N. S.

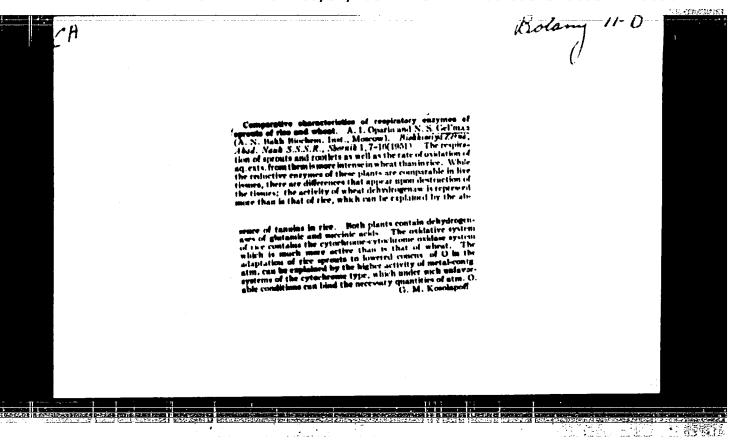
"Dehydration of Wheat Shoots," Biokhimiya, vol. 14, Nc. 1, 1949.

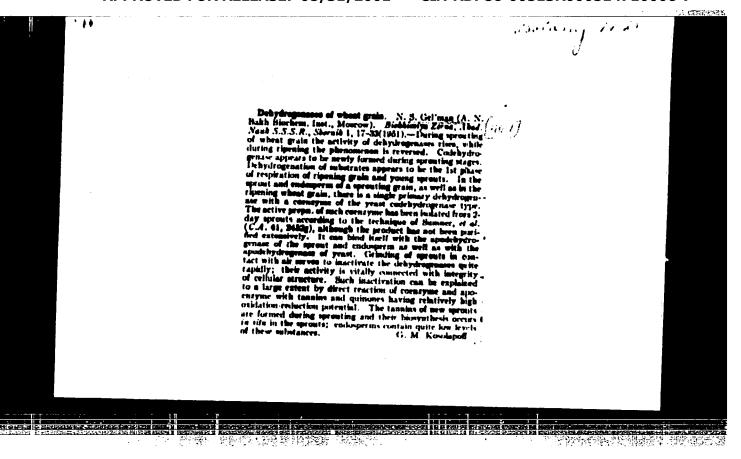
Inst. Biochem. im A. N. Bakh, Acad. Sci. USSR

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OPARIN, A.I.; SISAKYAN, N.M.; GML'MAN, N.S. Contribution to the history of plant biochemistry in the U.S.S.R. Trudy
(MLMA 6:7) Inst.ist.est. 4:236-266 '52. (Botanical chemistry) 。 1. 1000 - 10

KRETOVICH, V. L., CEL!LAN, H. S.

Palladin, Vladimir Ivanovich, 1859-1922

Vladimir Ivanovich Palladin; 30th anniversary of his death. Vest. AN SSSR 21, No. 2, 1952.

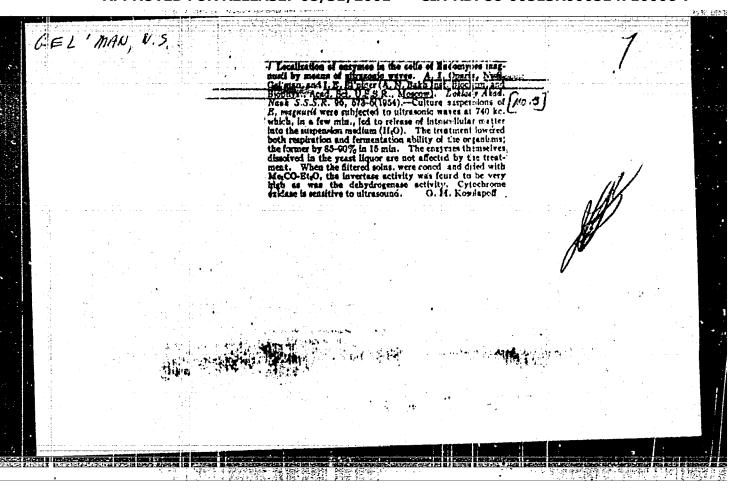
9. Monthly List of Russian Accessions, Library of Congress, July 1952 x1953, Uncl.

CPARTN, A. I., GELLMAY, M. S.

Botany - Physiclogy

Problem of the relation between respiration and processes of synthesis in plants. Dokl. AN SSOR 85, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December



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CIA-RDP86-00513R000514710006-7

于工作和基础。在1980年1月20日

GELTMAN, N. S. USSR/Biology - Biochemistry : 1/1 Card Oparin, A. I. Academician; Gel'man, N. S. and El'piner, I. E. Authors Discovery of invertin in Saccharomyces Globosus 349 with the aid of Title ultrasonic waves Dokl. AN SSSR, 97, Ed. 2, 293 - 295, July 1954 Periodical : Experimental data are presented on the discovery of invertin (yeast enzyme) in Saccharomyces Globosus 349, the activity of which becomes evident Abstract after the effect of the ultrasonic waves resulting in partial escape of the cellular content into the surrounding solution. Five references. Drawing. Institution : Acad. of Sc. USSR, Institute of Biophysics and the A. N. Bakh Institute of Biochemistry : May 15, 1954 Submitted

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GEL MAIN, N.S.

USER/Biology - Biochemistry

Card 1/1

Pub. 22 - 28/45

Authors

: Oparin, A. I., Academician; Gel'man, N. S.; and Zhukova, I. G.

Ti.tle

: Effect of nutritious medium on the carbohydrate composition of yeast and

its fermentation activity

Periodical : Dok. AN SSSR 99/4, 593-596, Dec 1, 1954

Abstract

The effect of the nutritious medium on the carbohydrate composition of Saccharomyces globosus 349 and Saccharomyces paradoxus 37 yeasts and the fermentation activity of the latter, was investigated. The results obtained are tabulated. Five references: 4-USSR and 1-USA (1949-1954). Table;

drawing.

Institution:

: - September 24, 1954 Submitted

GEL'MAN. N.S.

USSR/ Biology

Pub. 124 - 16/25 (lard 1/1

1 Deborin, G. A., Cand. of Chem. Sc., and Gel man, N. S., Cand. of Biol. Sc. Luthors

t At the Biological Sciences Department of the Acad. of Sc., USSR Title

Periodical : Vest. AN SSSR 25/12, 78-79, Dec 1955

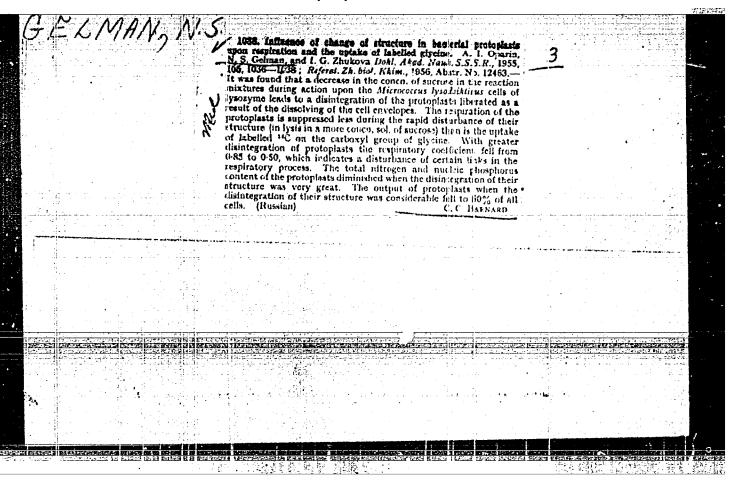
Briefs are presented from the lecture by the renown Danish Biologist, Prof. H. Holter, on the subject of, "Absorption of Liquids by Amebia," ibstract

held in Moscow on Oct. 12, 1955.

Institution :

Submitted

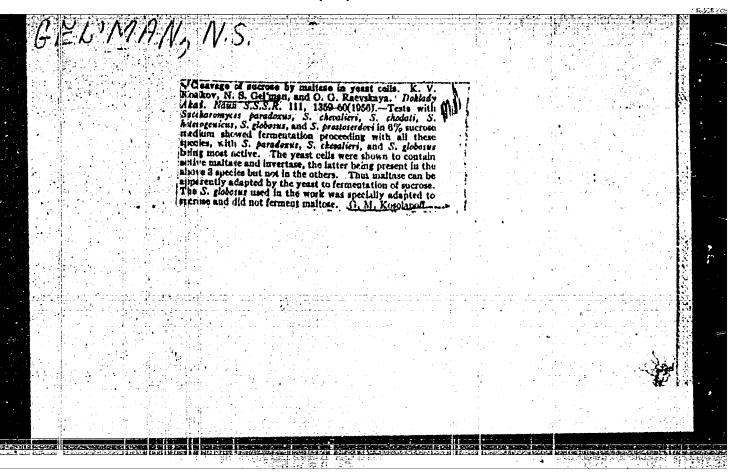
CIA-RDP86-00513R000514710006-7" APPROVED FOR RELEASE: 08/31/2001



GEL! MAN. N.S.; ZENKEVICH, G.D.; SISAKYAH, N.M., otvetstvennyy redaktor; CHARIN, A.I., akademik, redaktor; KHRUSHCHOV, G.K., redaktor; CHNEEL!, P.A., professor, redaktor; GAYSINOVICH, A.Ye., kandidat biologicheskikh nauk, redaktor; SIMKIMA, Ye.H., tekhnicheskiy redaktor

[Biochemistry of plants; a bibliography of Russian literature, 1738-1952] Biokhimita rastenii; bibliograficheskii ukasatel otechestvennoi literatury, 1738-1952. Sost. M.S.Gel'man i G.D.Zenkevich. Otv. red. M.M.Sisakian. Moskva, 1956. 394 p. (MLRA 9:7)

1. Akademiya nauk SSER. Otdeleniyebiologicheskikh nauk. 2. Chlenkorrespondent AE SSEE (for Sisakyan, Ehrushchov) (Bibliography-Botanical chemistry)



6-22 1944 . 10 OPARIN, A.I.; GEL*MAN, H.S.; ZHUKOVA, I.G. Relation of the incorporation of labeled glycine and the increase in protein nitrogen content to the structural conditions of bacterial protoplasts [with summery in English]. Biokhimiia 22 no.1/2:399-403 Ja-7 157. 1. Institut biokhimii im. A.H.Bakha Akademii nauk SSSR, Moskva. (MICROCOCCUS, metabolism, lysodeikticus, eff. of labeled glycine incorporation & protein nitrogen on structure of protoplasts (Rus)) (MITROGEN, metabolism, Micrococcus lysodeikticus, eff. of labeled glycine incorporation & protein nitrogen on structure of protoplasts (Rus)) (GLYCIME, metabolism, same)

CIA-RDP86-00513R000514710006-7" APPROVED FOR RELEASE: 08/31/2001

"Some Enzymatic Activities in Protoplasts and Ghosts of M. lysodeikticus,"

Paper submitted at IV International Congress of Blochemistry, 1 - 6 Sep 1958, Vienna, Austrial

[Ast Discuss in H. N. Barr March.

OPARIN, A.I., GEL'MAN, N.S., ZHUKOVA, I.G., LUK'YANOVA, M.A.

Interrelation of the enzyme activity of the di- and tricarboxylic acid cycle and the proteplast structure of Micrococcuslysodeikticus [with summary in English]. Biokhimiia 23 no.6:909-916 M-D '58 (MIBA 11:12)

 Institut biokhimii imeni A.N. Bakha AN SSSR, Moskva. (OXIDATION, PHYSIOLOGICAL)

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GEL'HAM, N.S.; ZHUKOVA, I.G.; LUKOYANOVA, M.A.; OPARIN, A.I.

Succinic oxidase and malic oxidases in structural elements of Micrococcus lysodeikticus. Biokhimiia 24 no.3:481-488 Hy-Je 159. (MIRA 12:9)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow. (MICROCOCCUS, metab.

lysodeikticus, succinic & malic oxidases (Rus)) (SUCCINIC OXIDASE,

in Micrococcus lysodeikticus (Rus)) (OXIDASES,

succinic oxidase in Micrococcus lysodeikticus (Rus))

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·能够是無的。另類,

GEL. MAN, N.S.; ZHUKOVA, I.G.; OPARIN, A.I.

Effect of a surface active substance on the enzymatic system

oxidising malic acid in cytoplasmic membranes of Micrococcus lysodeikticus. Biokhimia 24 no.6:1074-1078 N-D 159.

(MIRA 13:5)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R.,
Moscow.

(MICROCOCCUS metab.)
(MALATES metab.)
(SURFACE ACTIVE AGENTS pharmacol.)

Relationship of biochemical

Relationship of biochemical processes and structural elements of bacterial cells. Usp. sovr. biol. 47 no.2:152-167 Mr-Ap *59. (MIRA 12:7) (BACTERIA, metab. biochem., relation to cell structure, review (Rus))

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

一部。[1] 於醫難傳播。對豫於

17(2,3) AUTHORS:

Gel'man, N. S., Zhukova, I. G., Oparin, A. I., Academician

TITLE:

The Effect of Desoxyribonuclease on the Oxidation of Malonic Acid by the Lysates of Micrococcus Lyodeikticus (Vliyaniye dezoksiribonukleazy na okisleniye vablochnoy kisloty lizatami bakteriy Micrococcus Lyodeikticus)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 198-199 (USSR)

ABSTRACT:

Malic oxidase - a fermentative system which oxidizes malonic acid, is of considerable resistance as far as the disturbance of the protoplasmic structure is concerned. This system is localized in the oytoplasmic membranes - the "shadows". Such shadows can be obtained by treating the protoplasts, the bacteria mentioned in the title, with water, as well as by a direct lysis of the same bacteria in an osmotically unstabilized medium (Refs 1,2). The effect of the malonic oxidase is completely stopped due to the splitting of the highly molecular desoxyribonucleic acid (DNA) present in the lysate - by means of desoxyribonuclease (DNA-ase) - into cytoplasmic membranes which the lysate did not separate. This is expressed by

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Card 1/3

The Effect of Desoxyribonuclease on the Oxidation of Malonic Acid by the Lysates of Micrococcus Lyodeikticus

the fact that the oxygen absorption is stopped by the lysate at the expense of the malonic acid (Ref 1). The present work tries to explain a relation between the development of the DNA in the lysate containing cytoplasmic membranes, and the activity of the system of oxidative-reductive ferments. For the purpose of explaining the cause for the suppression of the activity of malic oxidase in lysates treated with DNA-ase and RNA-ase, the authors quantitatively defined this activity from the oxygen absorption. The preparations were observed simultaneously under the electron microscope (Fig 1). The lysis of the bacteria with lysozym DNA-ase and RNA-ase was made with both Mg-ions being either present or absent (Pig 1). As the results show, lysozym in an osmotically unstabilized medium causes the development of lysates containing cytoplasmic membranes. The active malic oxidase is maintained in these membranes. Their effect can be found by 0_2 -absorption.

Lysis caused by lysozym together with DNA-ase completely suppresses the fermentative system mentioned. Magnesium ions

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

SOY/20-126-1-54/62

The Effect of Desoxyribonuclease on the Oxidation of Malonic Acid by the Lysates of Micrococcus Lyodeikticus

stabilize not only the structure of the cytoplasmic membranes, but also the malic oxidase. The experiments proved that the DNA splitting of the bacterial lysate neutralizes the effect of the malic oxidase. Since this effect is maintained even in the presence of Mg-ions, although the Mg-ions do not prevent the fermentative splitting of DNA, it is most probable that DNA creates a spatial organization of the fermentative system of the malic oxidase on a supra-molecular level. An analogy to reference 8 may be seen. There are 1 figure, 1 table, and 8 references, 3 of which are Soviet.

SUBMITTED:

February 16, 1959

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

受付管理事業事業 これきだけて

GEL MAN, N. S., ZHUKOVA, I. G., LUKOYANOVA, M. A.

"Oxidative-Reducing Enzymes of the Cytoplasmic Membrane of Micrococcus Lysodeikticus."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Institute of Biochemistry Imeni.A. N. Bakh, Academy of Schences USSR, Moscow.

```
Oxidation of L-malic acid and reduced diphosphopyridinemucleotide in the cytoplasmic membrane of Micrococcus lysodeikticus. Dokl.

AM SSSR 133 no.5:1209-1212 Ag 60. (MEM 13:8)

1. Institut biokhimii im. A.M.Bakha Akademii nauk SSSR.

(Malic acid)

(Macleotides)

(Micrococcus)

(Oxidation, Physiological)
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GEL*MAN, N.S.; ZHUKOVA, I.G.; CPARIH, A.I., akademik

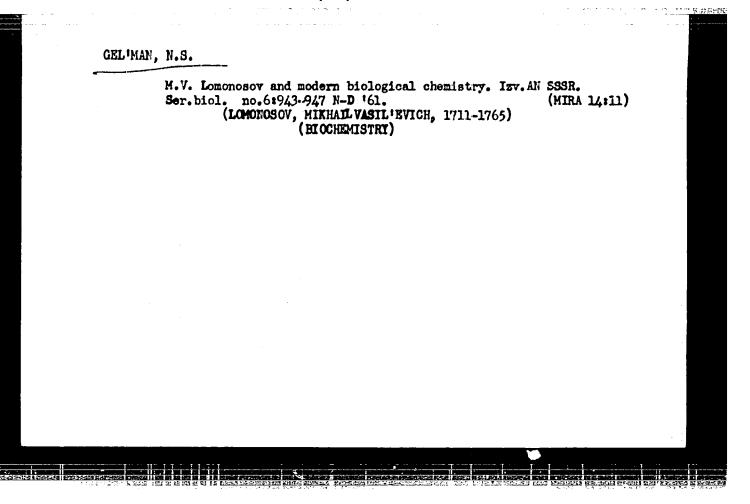
Effect of desoxycholate on the exidation of reduced diphosphopyridine nucleotide, L.—malic and L.—lactic acids in the cytoplasmic membrane of Nicrococcus lysodeikticus. Dokl. AN SSSR. 135 no.1:200-203 N '60.

(MICROCOCCUS) (CXIDATION, PHYSICLOGICAL) (BAGTERIOLYSIS)

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BELMAN, N. S.,	ZHUKOVA, I. 3., LUKYANOVA, M. A. (USSR).	
	e Cytoplasmic Membrane of Micrococcus lysodeixticus (read by title).	
	report presented at the 5th Int*1. Biochemistry Congress, Moscow, 10-16 Aug. 1961	
Series Remarks are the Party III		



LUKOYANOVA, M.A.; GEL'MAN, N.S.; BIRYUZOVA, V.I.

Structure of the cytoplasmic membranes of Micrococcus lysodeikticus and succinic oxidase and succinic dehydrogenase activity. Biokhimiia 26 no.5:916-925 S-0 *61. (MIRA 14:12)

1. Institute of Biochemistry and Institute of Radiation and Physico-chemical Biology, Academy of Sciences of the U.S.S.R., Mcscow.
(MICROCOCCUS) (SUCCINIC DEHYDROGENASE)
(SUCCINIC OXIDASE)

·有力的學術與國際

GEL WALL, 11.3.; SISANYAN, N.M., akademik, glav. ced.; BUVA,, KKA. glav. ced.; Olarin, A.I., akademik, red. torn; VETROVA, I.b., red. izd-va; NOVICHKOVA, N.D., tekhm. red.

[Transactions of the Fifth International Congress of Bio-chemistry]Trudy V Mezhdunarodnogo biokhimicheskogo kongressa. Moskva, Izd-vo Akad. nauk SSSR. [Vol.4. Evolutionary bic-chemistry; symposium No.3.]Evoliutsionnaia biokhimiia; simpozium III. 1962. 350 p. (MIRA 15:10)

1. International Congress of Biochemistry. 5th, Moscow, 1961. (BIUCHEMISTRY—CONGRESSES)

OSTROVKSIY, D.N.; GEL'MAN, N.S.

Determination of the oxygen concentration in biological fluids by the method of polarography with stationary hard electrodes. Biokhimiia 27 no.3:532-537 My-Je '62. (MIRA 15:8)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.
(OXYGEN) (POLAROGRAPHY) (BODY FLUIDS)

GEL'MAN, N.S.; LUKOYAMOVA, M.A.

Electron carriers in the respiratory chain and their connection with the structures of the bacterial cell. Mikrobiologiia 31 (MIRA 15:12) no.3:556-569 My-Je 162.

1. Institut biokhimii imeni A.N.Bakha AN SSSR. (OXIDATION, PHYSIOLOGICAL) (BACTERIA) (ELECTRONS)

GEL!MAN, N.S.; ZHUKOVA, I.G.; ZAYTSEVA, N.I.

Flavine mucleotides in the cytoplasmic membrane in Micrococcus
lysodeikticus. Dokl.AN SSSR 145 no.1:206-208 J1 162.

(MIRA 15:7)

1. Institut biokhimii imeni A.N.Bakha AN SSSR. Predstavleno

akademikom A.I.Oparinym.
(RIBOFLAVINE PHOSPHATES) (MICROCOCCUS)

GEL!NAN. N.S.; ZHUKOVA, I.G.; OPARIN, A.I.

Preparation of dehydrogenases of 1-malic acid and the reduced form of diphosphopyridine nucleotide from cytoplasmic membranes of Micrococcus lysodeikticus. Biokhimiia 28 no.1:122-127 Ja-F 163. (MIRA 16:4)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow. (CODEHYDROGENASE) (MICROCOCCUS) (MALIC DEHYDROGENASE)

OSTROVSKIY, D.N.; GEL'MAN, N.S. Hembranes of Micrococcus lysodeikticus and their relation to

oxidation phosphorylation. Dokl.AN SSSR 148 no.41945-946 F (MIRA 16:4) 163.

1. Predstavleno akademikom A.I.Oparinym. (Membranes (Biology)) (Micrococcus) (Phosphorylation)

"可能要要問題或問題問題。

OPARIN, A.I., Lakademik; GEL'MAN, N.S.; ZHUKOVA, I.G.; SHVETS, V.I.; CHERGADZE, YU.N.; TSFASMAN, I.M.

Lipids of the dehydrogenase preparation from the cytopiasmic membranes of Micrococcus lysodeicticus. Dokl. AN SSSR 152 no.1:228-230 (MIRA 16:9) S '63.

1. Institut biokhimii im. A.N.Bakha AN SSSR; Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova i Institut biologicheskoy fiziki AN SSSR. (LIPIDS) (DEHYDROGENASES) (BACTERIA, PATHOGENIC)

CIA-RDP86-00513R000514710006-7" APPROVED FOR RELEASE: 08/31/2001

一下 () 議會情報 性別

OPARIN, A.I., akademik; KHART'YAN, Ye.F.; GEL'MAN, N.S.

Localization of hydrogenases and their relation to oxygen in cells of Lactobacterium pentoacericum. Dokl. AN SSSR 157 no.1: 211-214 Jl *64 (MIRA 17:8)

1. Institut biokhimii im. A.N. Bakha AN SSSR.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

BIRYUZOVA, V. I.; LUKOYANOVA, M. A.; GEL'MAN, N. S.; OPARIN, A. I., akademik

Subunits in the cytoplasmatic membranes of Micrococcus lysodeikticus. Dokl. AN SSSR 156 no. 1:198-199 My '64. (MIRA 17:5)

1. Institut biokhimii im. A. N. Bakha AN SSSR i Institut radiatsicnnoy i fiziko-khimicheskoy biologii AN SSSR.

OPARIN, A.I.; LUKOYANOVA, M.A.; SHVETS, V.I.; GEL'MAN, N.S.; TORKHOVSKAYA, T.I.

Role of lipids in the organization of enzymatic chains of electron transfer in Micrococcus lysodeikticus. Zhur. evol. biokhim. i fiziol. 1 no.1:7-15 Ja-F 165. (MIRA 18:6)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Moskovskiy institut torkoy khimicheskoy tekhnologii im. M.V. Lomonosova.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

三百年 医主动脉 排放器 海海區

61016-65 -UR/003-7/65/000/007/0096/0095 ACCESSION NR. APSC18620 AUTHORS: Geliman, N. S.; Lukoyanova, H. A. TITLE: The structure and function of biological membranes SOURCE: AN SSSR. Vestnik, no. 7, 1965, 94-95 TOPIC TAGS: membrace, cytology, biochemistry, biophysics ABSTRACT : The structure and function of biological mentiones have been studied by blochemists, biophysicists, cytologists, and microbiologists to fini composition reaction characteristics controlling the strength of the bond with fats and albumins in the membrane, and the role of the membrane in cellular permeability. On April 7-7 the Hauchnyy sovet po evolyutsionnoy biokhimii i probleme vozniknoveniya zhizmi (Scientific Council on Evolutionary Biochemistry and the Problem of the Origin of Life) and the Moskovskoye otdeleniye Vsesoyuzacgo biokhisticheskogo obshchesiva Akademii, nauk SSSR (Koscow Department of the All-Union Biochemistry Society of the Academy of Sciences SSSR) conducted a symposium in loscow on the structure and function of such membranes. Himsteen reports were represented. These fall into two basic groups: properties of model fatty and fut-protein

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membranes, and the morphology and evolution of biological membranes. Some reports suggested the possibility of membrane formation in the pre-cellular stage of organism development. A. I. Oparin indicated two methods of approaching the study of biological membranes: model studies and investigation of structure and function of membranes in cells at different organization levels. G. A. Deborin discussed model studies on fatty and fat-protein membranes at an air-water interface. L. N. Moiseyev reported on transfer of hydrocarbons through model membranes. To. A. Liberman and A. A. Lev discussed the physical and physicochemical properties of phospholipid membranes at a water-water interface. K. B. Serebrovskaya reported on the ferrentation rate and its relation to labile components. L. D. Bergel'son pointed out the necessity of identifying the fatty components for model construction; 1. S. Vaysman explained electron miscoscope verification of the universal distribution of membrane structures in cells. V. F. Mashanskiy proposed a scheme of ferment distribution, and V. I. Biryuzova compared membrane structures at different evolutionary levels. Chloroplast structure and function were discussed by C. P. Ocipova, Ya. G. Molotkovskiy, E. N. Bezinger, and M. I. Molchanov. R. K. Salyayev discussed possible mechanisms of transmission through plant cells. Biochemical processes involving leaf movement were explained by M. N. yubimov, and a comparison of plant and animal cells was reported on by Ye. H.

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CIA-RDP86-00513R000514710006-7 "APPROVED FOR RELEASE: 08/31/2001

OPARIN, A.I., akademik; GEL'MAN, N.S.; ZHUKOVA, I.G. Effect of lipase and phospholipase A on the dehydrogenase activity in an enzymatic preparation from Micrococcus lysodeicticus membraпэв. Dokl. AN SSSR 161 no.1:237-240 Mr 165.

(MIRA 18:3)

1. Institut biokhimii im. A.N. Bakha AN SSSR.

CIA-RDP86-00513R000514710006-7" APPROVED FOR RELEASE: 08/31/2001

OSTROVSKIY, D.N.; KHARAT'YAN, Ye.F.; GEL'MAN, N.S.

Effect of pancreatic lipase on the protoplasts of Micrococcus lysodeikticus in connection with the problem of the localization of respiratory enzymes in bacteria. Bickhimiia 29 no. 1: 154-160 Ja-F 64.

1. Institut biokhimii imeni Bakha AN SSSR, Moskva. Suhmitted June 22, 1963.

L 62937-65 EE((b)-2/E/A(h)/E/T(1)

ACCESSION NR. ARS012297

UR/0058/65/000/003/H017/H017

SOURCE: Ref. zh. Fizika, Abs. 3Zh118

4

AUTHOF: Gel'man, O. Ya.

TITLE: Defining the limits for disjunctive use of exponential and normal distribution laws for breakdown times of elements in electronic equipment

CITED SOURCE: Env. Al LatvSSR, Ser. fiz. i tekhn. n., no. 4, 1955, 119-123

TOPIC TAGS: probability, reliability theory, distribution function, normal distribution

TRANSLATION: Data from a study of extreme points of the generalized probability distribution function for failures were used to determine the regions for disjunctive application of exponential and truncated normal distribution laws in evaluating reliability. In this case, the exponential distribution law describes the probability of accidental breakdowns, while the normal truncated law describes the probability of failures due to aging. It is assumed that the laws exist independently of each other.

SUB CODE: NA

ENCL: 00

Gelman, O, Ta

11-58-6-8/13

AUTHORS:

Rubinshteyn, M.M.; Grigor'yev, I.G.; Gel'man, O.Ya.; Khutsaidze, A.L.; Chikvaidze, B.G.

TITLE:

On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method (K metodike polucheniya monomineral'nykh fraktsiy dlya opredeleniya absolutnogo vozrasta gornykh porod argonovym

me todom)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr 6, pp 95-100 (USSR)

ABSTRACT:

The Argon method of determining the absolute age of rocks is the most convenient for wide scale use in geological research. Not all potassium containing minerals can be used for this purpose. The best mineral is mica - and especially muscovite, biotite and glauconite mica. For the purposes of obtaining monomineral fractions of these minerals in large quantities (necessary for mass age determination), the author constructed 2 separators of which

descriptions are given.

There are 2 photos, 2 figures, and 6 references, 4 of which

are Soviet and 2 American.

Card 1/2

11-58-6-8/13 On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method

ASSOCIATION: Geologicheskiy institut AN GruzSSR, Tbilisi (Geologic Institute of the AS of the Georgian SSR, Tbilisi)

SUBMITTED: July 15, 1957

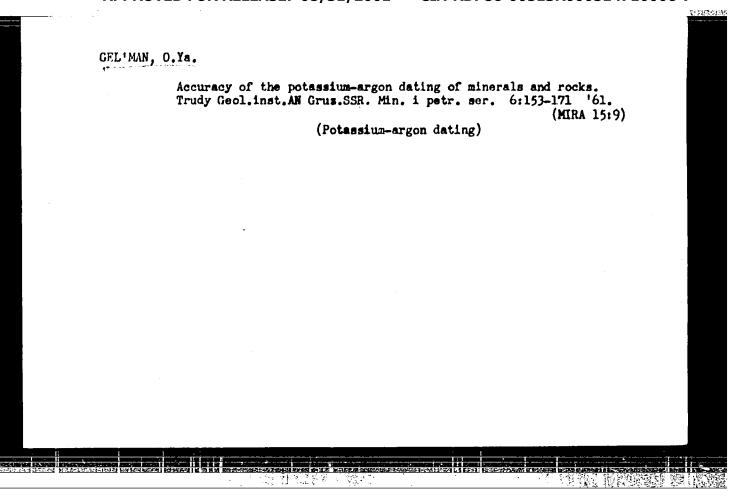
AVAILABLE: Library of Congress

Card 2/2 1. Geology 2. Rock-Determination

RUBIESHTEYN, M.M.; CHIKVAIDZE, B.G.; KHUTSAIDKE, A.L.; GEL'MAN, O.Ya.

Using glauconite for determining the absolute age of sedimentary rocks by the argon method. Isv.AN SESR.Ser. geol. 24 no.12:77-83 D 59. (MIFA 13:8) (MIPA 13:8)

1. Geologicheskiy institut AN Grussen, Toilisi. (Rocks, Sedimentary) (Glauconite) (Argon)



S/169/61/000/009/004/056 D228/D305

AUTHOR:

Gel'man, O. Ya.

TITLE:

Investigating errors in the determination of the content of ${\tt A}^{40}$ in minerals by the method of isotopic dilution

(with the use of A^{36})

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 9, 1961, 7, abstract 9A46 (Soobshch. AN GrazSSR, v. 25, no. 4, 1960, 399-406)

The error and sensitivity were studied for one of the variants in determining absolute age with respect to the radioactive conversion of K^{40} to A^{40} by the method of isotopic dilution. The reduction of the magnitude of error in determining the amount of the admitted standard is carried out by improving the conditions and raising the precision of the measurement of the mercury levels of the MacLeod manometer, and also by rejecting the use of the special measuring volume. The decrease in

Card 1/2

Investigating errors in...

S/169/61/000/009/004/056 D228/D305

the errors caused by mass-spectrometric measurements results in determining the optimum conditions for obtaining the maximum information. As a result of the conducted investigations it is shown that for an acceptable error of $E_{\rm a}=10\%$ and a weighed-portion of 10 g the measurable

concentration of A comprises ~ 0.006 n. m^3/g --when A with a normal isotopic content is used as the standard—and 0.001 n. m^3/g if a standard which is twice as rich in the isotope A is employed. When the K content of a mineral is $\sim 7\%$, we have a minimum measurable age of ~ 20 million years in the first case and of ~ 4 million years in the second case. Abstracter's note: Complete translation.

Card 2/2

RUBINSHTEYN, M.M.; GRIGOR'YEV, I.G.; UZNADZE, E.D.; GEL'MAN, O.Ya.; LASHKHI, B.A.

Spectrometric determination of alkali metals in an ammonia-oxygen flame. Soob.AN Gruz. SSR 24 mo.6:683-690 Je '60. (MIRA 13:9)

1. AN GruzSSR, Geologicheskiy institut, Tbilisi. Predstavleno akademikom A.I.Dzhanelidze.
(Alkali metals)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710006-7"

5/186/61/003/002/014/018 E111/E452

AUTHOR:

Gel'man, O.Ya.

TITLE:

Contribution on the problem of using the volumetric method for determining the content of radiogenic argon

in minerals

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.2, pp.215-224

The author points out that work with the isotope-dilution method of determination of radiogenic argon in measurements of absolute age (Ref.1: Kh.I.Amirkhanov, S.B.Brandt, Ye.N.Bartnitskiy, 10. Makhachkala (1958); Ref. 2: A.K. Mousuf, Phys. Rev., 88, 1, 150 (1952); Ref. 3: D.R. Carr and J.L. Kulp, Rev. Sci. Instr., 26, 4, 379. (1955)) has indicated that the disadvantages of the volumetric method are not as serious as earlier supposed. He has, therefore, carried out a comparative theoretical investigation on the two methods based essentially on measurement of their accuracies. His previous work (Ref.4: Soobshch. AN Gruz. SSR, 25, 4, 399 (1960)) gives the necessary information on the errors in the isotopedilution method, but none is available on that of the volumetric. He examines the various sources of error such as adsorbed argon on specimen surface and argon absorbed during crystallization of the Card 1/4

5/186/61/003/002/014/018 E111/E452

Contribution on the problem ...

the mineral. The latter is generally improbable (Ref. 4 and Ref. 8: R.Ye.Damona, J.L.Kulp, Am. Mineralogist, 43, 433 (1958)) and the non-radiogenic argon can therefore be assumed to have the atmospheric distribution of argon isotopes. The problem is to select for measurement the isotope ratios with which both the number of measured values and the error obtained would be at a minimum. The author examines possible combinations and arrives at the following equation for the relative error $\Delta X/X$ in the determination of the content of radiogenic A40

$$\frac{\Delta X}{X} = \frac{\Delta Q}{Q} + \frac{\Delta a}{a} = \delta + \psi + \psi = \frac{\Delta c}{c} + 2\frac{\Delta H}{H} + \frac{\Delta K}{K_B} \cdot \frac{K_B + K_S}{K_B - K_S}.$$
 (36)

Here, Q is the total quantity of argon, α is the mass-spectrometric correction (for the non-radiogenic argon content), c is the calibration content for the apparatus, $H = \sqrt{Q/c}$; ΔK is the value of the absolute error (10⁻⁵ according to Ref. 4 and Ref. 10: Kh.I.Amirkhanov, S.B.Brandt. Makhachkala (1956)) in the mass spectrometric determination of the K ratio, K_B is the Card 2/4

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Contribution on the problem ...

5/186/61/003/002/014/018 E111/E452

ratio B³⁶/B⁴⁰ where B indicates the content of the corresponding non-radiogenic argon isotope and $K_2 = B36/(B40 + x)$. On the basis of this equation, the author carries out his comparison of the two methods, using his own (Ref. 4) and other published information (Ref.1). Among the factors considered are the degree of "enrichment" of the standard sample with A36 compared with argon of the normal isotope composition; the degree of "contamination" of argon evolved from the mineral by air argon; the degree of dilution. He shows the importance of the second factor. The author concludes from his examination that the volumetric method is more accurate and sensitive than the variants of the dilution method considered. The latter becomes comparable only if a standard enriched with ${\sf A}^{36}$ is used. However, this conclusion However, this conclusion may be somewhat altered when very small quantities of argon are measured, since then considerable systematic errors may appear. There are 1 table and 11 references: 7 Soviet-bloc and 4 non-Sovietbloc. The four references to English language publications read as follows: A.K.Mousuf, Phys. Rev., 88, 1, 150 (1952); D.R.Carr and J.L.Kulp, Rev.Sci.Instr., 26, 4, 379 (1955); Card 3/4

S/186/61/003/002/014/018 Contribution on the problem ... E111/E452

P.E.Damon and J.L.Kulp, Am. Mineralogist, 43, 433 (1958); A.O.Nier, Phys.Rev., 77, 6, 789 (1950).

SUBMITTED: May 5, 1960

Card 4/4

RDSUNSHTEYN, M.M.; GRIGOR'YEV, I.G.; UZNADZE, E.D.; GEL'MAN, O.Ya.

Photometric determination of potassium and sodium in ammoniaoxygen flame. Biul.Kom.po opr.abs.vomr.geol.form. no.4:109-113
'61. (Geological time)
(Potassium) (Sodium)

GEL'MAN, O.Ya.

Effect of the discreteness of the measuring scale on accuracy estimation of measurement results. Soob. AN Gruz. SSR 26 no.50513-520 My °61. (MIRA 14:8)

1. Geologicheskiy institut AN GruzSSR, Tbilisi. Predstavleno chlenom-korrespondentom AN GruzSSR G.S. Chogoshvili.
(Errors, Theory of)

1975年 1985年 1985年

S/011/62/000/005/001/001 A051/A126

· [15] [18] [18] [18] [18] [18]

AUTHORS:

Rubinshteyn M. M., Gel'man, O.7a.

TITLE

On the neccessity of unification of the values of KuO radioactive

decay constants used in calculating the absolute age

PERIODICAL: Akademiya nauk SSSR Izvestiya. Ser. geologich., no. 6,1962,3-11

TEXT: The authors discuss the decay constants of K46 and their determination by the radiogenic argon content. They are reviewing methods presented in pertinent literature published in the period from 1947 to 1961. In their conclusion they stress the point that the use of a diversity of constants for the calculation of age values should be discontinued and suggest a decision on the unification be made by an authoritative body as the International Geological Congress.

ASSOCIATION: Geologicheskiy institut AN GruzSSR, Tbilisi (Geology Institute of the AS GeorgianSSR, Tbilisi)

Card 1/1

27751 \$/058/61/000/007/042/086 A001/A101

11.4100

AUTHORS: Rubinshteyn, M.M., Grigor'yev, I.G., Uznadze, E.D., Gel'man, O.Ya.,

Lashkhi, B.A.

TITIE: Spectrophotometrical determination of alkali metals in ammonia-oxy-

gen flame

PERIODICAL: Referativnyy zhurnal. Pizika, no. 7, 1961, 175, abstract 70149

("Soobsheh. AN GruzSSR", 1960, v. 24, no. 6, 683 - 690)

TEXT: The authors describe a flame-photometrical device designed for determination of Na, K, Li and Rb in solutions. The NH₃-O₂ flame was used for spectrum excitation. The measurement of spectral line intensities was conducted with a photoelectrical device which consisted of an JM -2 (UM-2) monochromator, a photocell, a d-c amplifier, and a microamperemeter. The nature of an effect which arose at the simultaneous determination of alkali elements was investigated, and methods of taking it into account are proposed. In particular, tables are calculated for correcting the results of joint determinations of Na and K.

[Abstracter's note: Complete translation]

M. Britske

Card 1/1

GHL'MAN. P. Ta..., redaktor; SKYOHTSOV, I.M., tekhnicheskiy redaktor

[Technical material on automatic switches and fuses] Tekhnicheskie materialy po avtomaticheskim vykliuchateliam i predokhraniteliam.

Moskva, Gos. energ. isd-vo, 1956. 102 p. (MIRA 9:10)

1. Moscow. Gesudarstvennyy proyektnyy institut Tyanhpora-elektroproyekt.

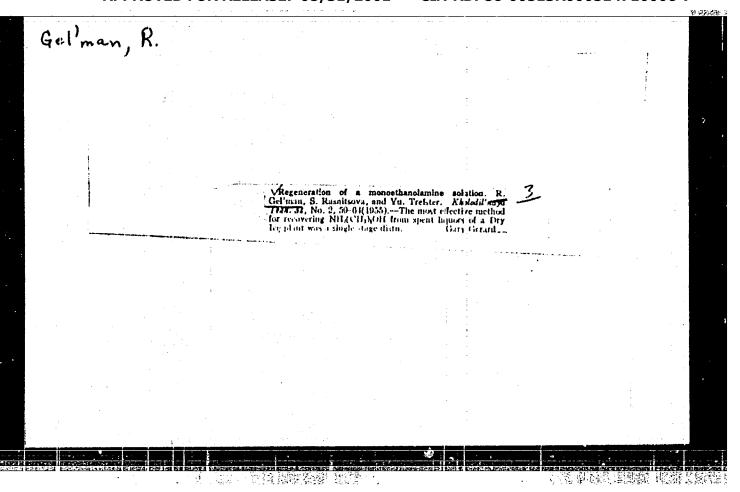
(Electric switchgear)

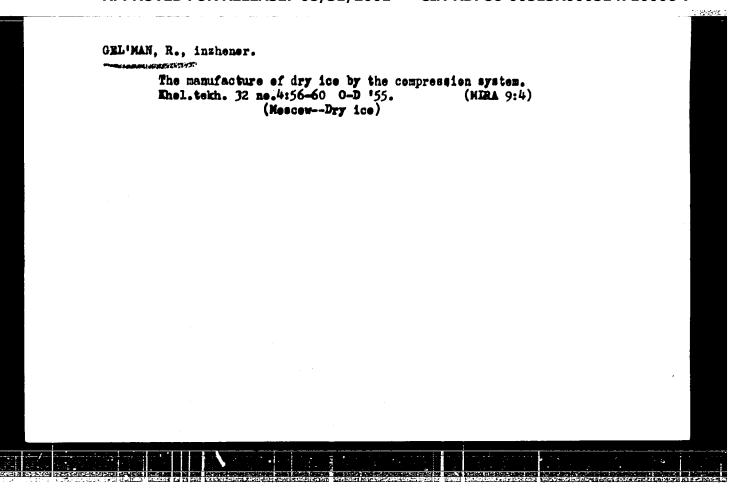
OEL'MAN, R., inshener.

Measuring and control instruments at the dry ice plant of the Moscow cold storage combine. Ehol.tekh. 31 no.4:62-66 O-D '54.

(Moscow--Dry ice)

(Moscow--Dry ice)

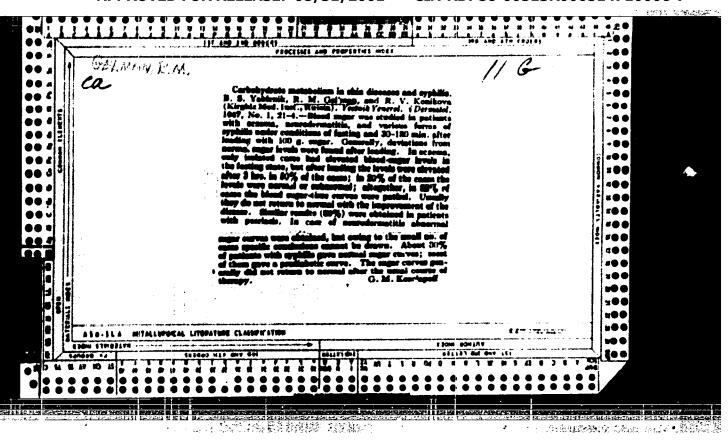




GRL MAR, R.; LIFSHITS, A.

Problems in the reduction of the cost of dry ice. Khol. tekh. 34 (MIRA 11:1)

(Dry ice--Costs)



التي التي التي التي التي التي التي التي	technique to the evaluation of mountainous regions. Geod.i kart.				
	(Aerial photogrammetry)				

3(4) AUTHOR:

Gel'man, R. N.

307/6-59-1-5/14

TITLE:

Taking Into Account the Imperfect Fit of the Photographic Plate in Photographing With the Phototheodolite (Uchet vliyaniya neplotnogo prileganiya fotoplastinki pri

fototeodolitnoy s"yemke)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 1, pp 31-36 (USSR)

ABSTRACT:

This paper shows the possibility of taking into account the imperfect fit of the photographic plate in the frame of the camera. The distortion of the picture can be divided into two components: the one is dependent on the irregular fit, which is analogous to the increase of the focus of the camera by Δf , whereas the second component corresponds to an inclination of the photographic plate at a rotation of the plate with respect to the plane of the frame around the angle { .-First the formula (3) for the influence exerted by the imperfect fit of the photographic plate upon the coordinate x is derived. This influence corresponds to the inclination in the rotation of the plate around the vertical axis of the picture. Then the formula (5) for the same influence, but in the

Card 1/2

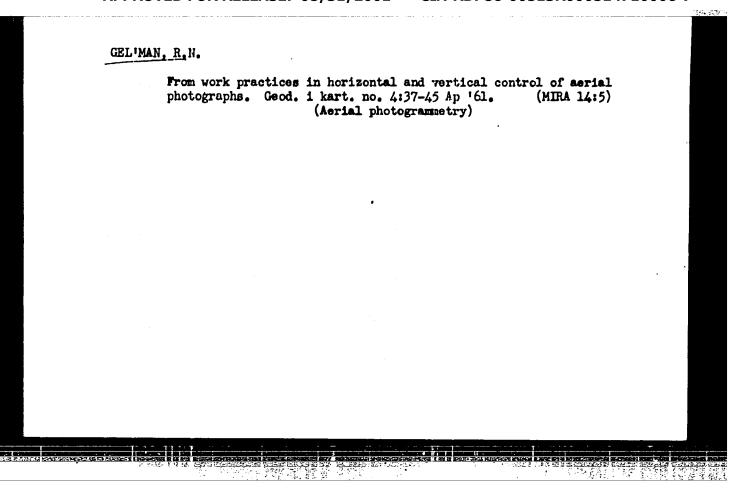
rotation of the photographic plate by the angle ω around the

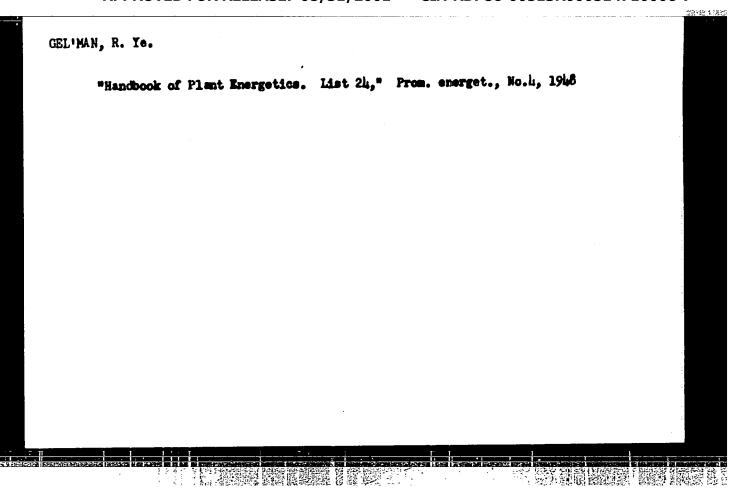
Taking Into Account the Imperfect Fit of the Photographic Plate in Photographing With the Phototheodolite

so7/6-59-1-5/14

horizontal axis of the picture, is deduced. To introduce corrections of the imperfect fit of the photographic plate in the frame Af, E and @ must be known. The formulas (6) and (7) are derived. (6) expresses the corrections of the abscissa of the picture x due to the imperfect fit of the photographic plate in dependence upon the variation of the distance between the coordinate marks. The distortion caused at the moment of exposure by the imperfect fit of the photographic plate, as well as the way of non-fitting, and its sign can be determined according to formula (7). Using formula (6) also those values may be found beginning at which corrections must be introduced due to the imperfect fit of the photographic plate. -The determination of the cases of imperfect fit according to the method described here takes but little time. Therefore, all negatives must be examined according to this method after finishing the field work. When an imperfect fit of the photographic plate is found corrections of all points must be carried out according to formula (6). There are 4 figures.

Card 2/2





PA 75T25 GEL'HAH, R. YE May 1948 USER/Electricity Motors, Electric "Combined Table of Asynchronous Motors of Three-Phase Current With Contact Rings," R. Ye. Gel'man, 1 p "Prom Energet" No 5 An installment of a tabulated list of standard electric motors and their performances.

Í	USER/Engineering Motors, Polyphase	Jun 48
	"Handbock for the Industrial R. Ye. Gel'man, Engr, 1 p	Energetics Engineer,"
	"Prom Energet" No 6	
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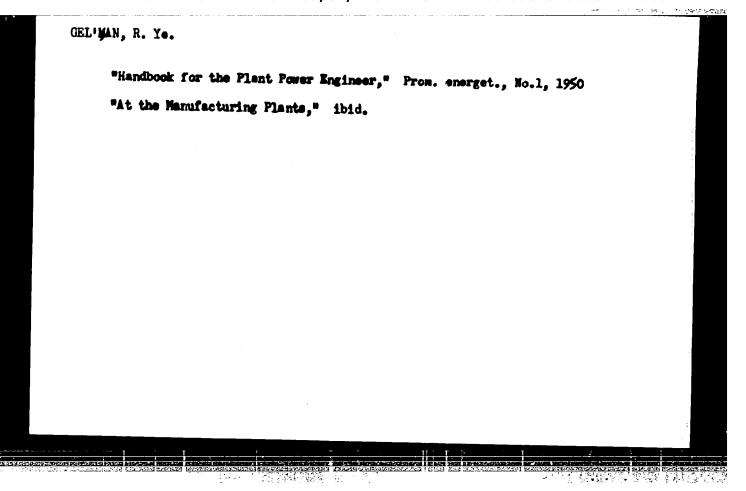
"High-Voltage Cut-Out Switch," Prom. energet., No.6, 1949

"Hambook of Plant Energetice," ibid., No.7, 1949

"Data on Magnetic Starter Coils," ibid.

"The Factory Power Engineer's Hambook Sheet 44, Reactors, Concrete, Current Express Limiting," ibid., No.9, 1949

"Information on Factory Power Engineering," ibid., No.10, 1949



RT-1267 Soviet testing and measuring instruments Kritrol'mo-izzeritel'nye pribory.

Promyshlennaia Emergetika, 7(12): inside back cover, 1950.

GEL'MAN, R. *C.

"Control Measuring Instruments," Elektrichestvo, No 9, 1950.

Translation W-15573, 4 Dec 50

ī	"Relays J-1951	Made by	• US S9	Industry	Prom Energe	t No 5, 6,	May , Jun 19	51

Pumping Machinery
Electric tumps for artesian wells. From. energ., 9, no. 4, 1952

Kenthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

Nonthly List of Russian Accessions, Library of Congress, April 1958. UNCLASSIVED.

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Licetric Felays
Universal, electromagnetic relay, model MKU-18, manufactured by the plant of the Ministry of Communication Equipment Industry (the end). From. energ. 9, No. 3, 1072.

Monthly List of Eussian Accessions, Library of Congress, June 1072, UNIVERSITIED

GELTION, R. WE.

Electric Current Rectifiers

Cuprous exide rectifier manufactured by the plant of the Unistry of Communication Equipment Industry. Prom. energ. 9, No. 4, 1952.

Fonthly List of Russian Accessions, Library of Ongress, June 1952. WCLASSIFIFD.

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Electric Current Rectifiers

Cuprous oxide rectifiers produced in the plant of the Unistry of Communication Equipment Industry (conclusion). Prom. energ. 9, No. 5, 1952.

Monthly List of Russian Accessing, Library of Congress, August, 1952. UNCLAUSIFIED.

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Flectric Switchgear	
Circuit breakers and switches in plants of the Ministry energ. 9 no. 6, 1952.	of -learnical Industry. From.
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Electric Switchmear

Electrical comincering; standard circuit breakers and switches of a clant of the Ministry of Electrical Industry. Prom. energ., 2, Mc.7, 1252.

Ponthly List of Russian Accessions, Library of Congress, October, 1252, UNGLASSIFIED

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"News from Producing Plants," Prom. emerg., 9, No.8, 1952

"Electric Engineering. Standard Switchboards for Direct Current Electric Motors, and for Low Voltage Asunchronous Electric Motors of General Use," ibid.

- 1. GEL'MAN, R. Ye., Eng.
- 2. USSR (600)
- 4. Electric Switchgear
- 7. Electric engineering. Standard switchboards for direct-current electric motors, and for general purpose, low-voltage, asynchronous motors. (Continued) Prom. energ. 9 No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

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- 1. GEL'MAN, R. Ye., Eng.
- 2. USSR (600)
- 4. Electric Switchgear Standards
- 7. Electric Engineering. Standard switchboards for direct current electric motors, and for general purpose, low voltage, asynchronous electric motors, Prom. energ., 9, No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

- 1. Galiman, R. Ye.
- 2. USSR (600)
- 4. Electric Machinery
- 7. Electric engineering. Three-phase starter reactors with natural oil cooling series PRTM built by the plant of the Ministry of Electric Industry. Prom. energ. 9 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

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- 1. GEL'MAN, R. Ye.
- 2. USSR (600)
- 4. Electric Switchgear
- 7. Automatic and non-automatic switches type Apl6 (Flant MEF). Prom. energ., no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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1. GEL'MAN, R. YE.

2. USSR (600)

4. Electric Apparatus and Appliances

7. From manufacturing plants. Prom.energ., 10, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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1. GEL'MAN, R.Ye.

2. USSR (600)

4. Electric Engineering

7. Through producer plants, Eng. Prom.energ. 10 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

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